

FIGURE 1

-240
CAGGAGGTGAAAGTCCCGGGCTCCGGATGGCGCAGTTGCACTGCGCTGCTGAGCTCGCGGGCCCTGCCACACTGGGGGACTCGCTTCGGCTAGTAACCTCTCCACCTCGCGGGCGG -121
ACGACCGGTCTCGACACGCTCGCTGCGAGGCAAGTTGAACAGTGCAGAGAAGGATCTTAAAGCTACACCCGACTTGCCACGATTGCTTCAATCTGAAGAACCAAGGCTGTTGGAGAG -1

ATGGCAGTGACATCCACCACATGATCCCGGTGATGGTTGTCTGATGAGCGCTGCTGGCCACCGCGGTCCAGAGCCCAGCACCCGGTGTGAAGTGTCAACATCAACGCTCTCAC 120
MetAlaValThrSerHisHisMetIleProValMetValValLeuMetSerAlaCysLeuAlaThrAlaGlyProGluProSerThrArgCysGluLeuSerProIleAsnAlaSerHis 40

CCAGTCCAGGCTTGATGGAGAGCTTACCGTTCTGTCTGGCTGTGCCAGCAGAGGCCACCGGGCTGCCAAGGGAGGTCCATGTCTAAACCTCCGAAGTACAGATCAGGGACCGGC 240
ProValGlnAlaLeuMetGluSerPheThrValLeuSerGlyCysAlaSerArgGlyThrThrGlyLeuProArgGluValHisValLeuAsnLeuArgSerThrAspGlnGlyProGly 80

CAGCGGCAGAGAGAGTTACCTGACCTGAACCCATTGCTCGGTGCACACTCACCACAACCTATCGTGTCTCTGCTCAACTCCCCCAGCCCTGGTGTGGCATCTGAAGACGGAG 360
GlnArgGlnArgGluValThrLeuHisLeuAsnProIleAlaSerValHisThrHisHisLysProIleValPheLeuLeuAsnSerProGlnProLeuValTrpHisLeuLysThrGlu 120

AGACTGGCGCTGGTGTCCCGAGACTCTTCTGGTTTCGGAGGGTCTGTGGTCCAGTTTCCATCAGGAAACTTCTCTTGACAGCAGAAACAGAGGAAAGGAATTCCCTCAAGAAAAT 480
ArgLeuAlaAlaGlyValProArgLeuPheLeuValSerGluGlySerValValGlnPheProSerGlyAsnPheSerLeuThrAlaGluThrGluGluArgAsnPheProGlnGluAsn 160

GAACATCTCGTGGCTGGGCCCCAAAGGAATATGGAGCAGTGACTTCTGTTCACTGAATCAAGATAGCAAGAAACATCTATATAAGTGGGAGAAGATCAAGTGTTCCTCTACGTGT 600
GluHisLeuValArgTrpAlaGlnLysGluTyrGlyAlaValThrSerPheThrGluLeuLysIleAlaArgAsnIleTyrIleLysValGlyGluAspGlnValPheProProThrCys 200

AACATAGGGAAGAAATTCCTCTCACTCAATTACCTTGCCGAGTACCTTCAACCCAAAGCCGCGAAGGTGTGTCTGCCAGTACGCCCATGAAAGGAAGTACACATCATCGAGTTA 720
AsnIleGlyLysAsnPheLeuSerLeuAsnTyrLeuAlaGluTyrLeuGlnProLysAlaAlaGluGlyCysValLeuProSerGlnProHisGluLysGluValHisIleIleGluLeu 240

ATTACCCCGAGCTCGAACCCTTACAGCGCTTTCAGGTGGATATAATAGTTGACATACGACCTGCTCAAGAGGATCCGAGGTGGTCAAAACCTTGTCTGATCTTGAAGTGCAAAAAG 840
IleThrProSerSerAsnProTyrSerAlaPheGlnValAspIleIleValAspIleArgProAlaGlnGluAspProGluValValLysAsnLeuValLeuIleLeuLysCysLysLys 280

TCTCTCACTGGGTGATCAAGTCTTTTACGCTCAAGGGAACTTGAAGTCAATTGCTCCCAACAGTATCGGCTTTGGAAAAGAGAGTGAACGATCCATGACAATGACCAATTTGGTAAGA 960
SerValAsnTrpValIleLysSerPheAspValLysGlyAsnLeuLysValIleAlaProAsnSerIleGlyPheGlyLysGluSerGluArgSerMetThrMetThrLysLeuValArg 320

GATGACATCCCTTCCACCAAGAGAATCTGATGAAGTGGGCACTGGACAATGGCTACAGGCCAGTGACGTCATACACAATGGCTCCCGTGGCTAATAGATTTCATCTTGGCTTGAGAAC 1080
AspAspIleProSerThrGlnGluAsnLeuMetLysTrpAlaLeuAspAsnGlyTyrArgProValThrSerTyrThrMetAlaProValAlaAsnArgPheHisLeuArgLeuGluAsn 360

AAGCAGGAGATGAGAGATGAGGAAGTCCACACCATCTCTCTGAGCTTCGTATCTCTGTCGACCTGACCAACCCCGCCCGCTGGACAAOCCACTCTTCCAGGAGAGGGAAGCCCAAAT 1200
AsnGluGluMetArgAspGluGluValHisThrIleProProGluLeuArgIleLeuLeuAspProAspHisProProAlaLeuAspAsnProLeuPheProGlyGluGlySerProAsn 400

GGTCTCTCCCTTTCCATTCCCGGATATCCCCAGGAGAGGCTGGAAGGAGGGCGAAGATAGGATCCCCCGGCCAAAGCAGCCCATCGTTCCAGTGTTCAACTGCTTCTGACCACCGA 1320
GlyGlyLeuProPheProPheProAspIleProArgArgGlyTrpLysGluGlyGluAspArgIleProArgProLysGlnProIleValProSerValGlnLeuLeuProAspHisArg 440

GAACCAAGAAGTGAAGGGGCGTGGACATCGCCCTGTCACTCAATGTGACCATGAAAGATGGTCTGGCTGTAGACAAAGACTCTTTCCAGACCAATGGCTACTCAGGGATGGAG 1440
GluProGluGluValGlnGlyGlyValAspIleAlaLeuSerValLysCysAspHisGluLysMetValValAlaValAspLysAspSerPheGlnThrAsnGlyTyrSerGlyMetGlu 480

CTACCCCTGTTGGATCTCTCGTGAAGGCCAAAATGAATGGTACTCACTTGTCTCGAGTCTCCCTGAATGGCTGTGGTACTCGACATCGGAGGTGCGACCCCGGATGGTGTGTTTAC 1560
LeuThrLeuLeuAspProSerCysLysAlaLysMetAsnGlyThrHisPheValLeuGluSerProLeuAsnGlyCysGlyThrArgHisArgArgSerThrProAspGlyValValTyr 520

TATACCTCTATTGTGGTGCAGGCTCCGTCCTCCCTGGGGATAGCAGTGGCTGGCTGATGGCTATGAAGACTTGGAGTCAAGCGGATAATGGATTCTCTGGAGACGGGGATGAAGGAGAACT 1680
TyrAsnSerIleValValGlnAlaProSerProGlyAspSerSerGlyTrpProAspGlyTyrGluAspLeuGluSerGlyAspAsnGlyPheProGlyAspGlyGluThr 560

CCCCCTGAGCCGAGCTGGAGTGGTGGTGTAACTGCAGCTTGGCGCAGCTGAGGAATCCAGTGGCTTCCAGGGCCAGCTCGATGGAAATGCTACCTTCAACATGGAGCTGTATAAC 1800
AlaProLeuSerArgAlaGlyValValPheAsnCysSerLeuArgGlnLeuArgAsnProSerGlyPheGlyGlnLeuAspGlyAsnAlaThrPheAsnMetGluLeuTyrAsn 600

ACAGACCTCTTCTGGTGCCTCCCCAGGGGTCTTCTGTGGCAGAGAAGCAGCATGTTTATGTTGAGGTGTCTGTCCACCAAGGCTGACCAAGATCTGGGATTCCGCATCCAAACCTGC 1920
ThrAspLeuPheLeuValProSerProGlyValPheSerValAlaGluAsnGluHisValTyrValGluValSerValThrLysAlaAspGlnAspLeuGlyPheAlaIleGlnThrCys 640

TTTCTCTCTCCATCTCAACCCAGACAGAATGTCTGATTACCATCATCGAGAATCTGTCCGAAAGCAGACTCTGTGAAGTTCTACAGCTCCAAGAGAGTGCATTTCCCATCCCG 2040
PheLeuSerProTyrSerAsnProAspArgMetSerAspTyrThrIleIleGluAsnIleCysProLysAspAspSerValLysPheTyrSerSerLysArgValHisPheProIlePro 680

CATGCTGAGGTGGACAAGAAGCGCTTCAGCTTCTGTTCAAGTCTGTGTTCAACACCTCCCTGCTTCTCTGCACTGCGAGTTGACTCTGTGCTCCAGGAAGAAGGGCTCCCTGAAGCTG 2160
HisAlaGluValAspLysLysArgPheSerPheLeuPheLysSerValPheAsnThrSerLeuLeuPheLeuHisCysGluLeuThrLeuCysSerArgLysLysGlySerLeuLysLeu 720

CCGAGGTGTGTGACTCTGACGACGCTGCATCTCTCGATGCCACCATGATCTGGACCATGATGCAGAATAAGAGACATTACCAAGCCCTGGCTGTGGTCTCCAGGTAGACTAT 2280
ProArgCysValThrProAspAspAlaCysThrSerLeuAspAlaThrMetIleTrpThrMetMetGlnAsnLysLysThrPheThrLysProLeuAlaValValLeuGlnValAspTyr 760

AAAGAAATGTTCCAGCACTAAGGATTCCAGTCCAATTCTCTCTCTCTCCACAGATTTTCCATGGCTGGACACGCTACCGGTGATGGCATTGCAATTGACAGCATTGTGATCGGA 2400
LysGluAsnValProSerThrLysAspSerSerProIleProProProProGlnIlePheHisGlyLeuAspThrLeuThrValMetGlyIleAlaPheAlaAlaPheValIleGly 800

GCGCTCTGACGGGGGCTTGTGGTACATCTACTCCACACAGGGGAGACAGCAGGAAGGCAGCAAGTCCCTACCTCGCCCGCAGCCTCGGAGAACAGCAGCGCGGCCACAGCATCGGC 2520
AlaLeuLeuThrGlyAlaLeuTrpTyrIleTyrSerHisThrGlyGluThrAlaArgArgGlnGlnValProThrSerProProAlaSerGluAsnSerSerAlaAlaHisSerIleGly 840

AGCACTCAGAGTACCCCTGCTCTAGCAGCAGCAGCCTAGGTGGACAGACAGCGCCCGCCACCGCAGCCAGGCGAGGCGCCGATGCCAGTGTGCTGCTCCACAGTCAGAAGTCTT 2640
SerThrGlnSerThrProCysSerSerSerSerThrAla*** 853

GATCTGGGCTCCCTGTAAGAAAGAGTGAATTCAGTATACAGACAGCCAGTTCTACCCACCCCTTACCACGGCCACATAAATGTGACCTGGGCATCTGTACACGAAAGCTAAGCTG 2760
GTGGCCTTCCCCACAGCCCTCGCAGGATGGGGTTTCAATGTGAACATCTGCCAGTTTGTGTTTGTGTTTAAATGCTGCTTGTCCAGGTGTCCAAACATCCATCATTTGGGGTGG 2880
TCTGTTTACAGAGTAAAGAGGGCGGTGAAGGACGCTCAGCTAGTGTGTAGGCCAAGGGGAGACGCTAGGATCTCGCCTAGCTGAACCAAGGTGTAATAAGAACACCGCTCC

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FIGURE 2

>DL:3FF

Meld of: 3FF6-9 3FF13

TTCCGTTGCT	GTCGGTTGGC	GAGGAGTTTC	CTGTTTCCCC	CGCAGCGCTG
AGTTGAAGTT	GAGTGAGTCA	CTCGCGCGCA	CGGAGCGACG	ACACCCCCGC
CCGTGCACCC	GCTCGGGACA	GGAGCCGGAC	TCTGTGCGAG	CTTCCCTCGG
CCGCCGGGGG	CCTCCCCGCG	CCTCGCCGGC	CTCCAGGCCC	CTCCTGGCTG
GCGAGCGGGC	GCCACATCTG	GCCCCACAT	CTGCGCTGCC	GGCCCGGGCG
GGGTCCGGAG	AGGGCGCGGC	GCGGACGCAG	CCAGGGGTCC	GGGAAGGCGC
CGTCCGTGCG	CTGGGGGCTC	GGTCTATGAC	GAGCAGCGGG	GTCTGCCATG
GGTCGGGGGC	TGCTCAGGGC	CTGTGSCCGC	TGCACATCGT	CCTGTGGACG
CGTATCGCCA	GCACGATCCC	ACCGCACGTT	CAGAAGTCGG	TTAATAACGA
CATGATAGTC	ACTGACAACA	ACGGTGCAGT	CAAGTTTCCA	CAACTGTGTA
AATTTTGTGA	TGTGAGATTT	TCCACCTGTG	ACAACCAGAA	ATCCTGCATG
AGCAACTGCA	GCATCACCTC	CATCTGTGAG	AAGCCACAGG	AAGTCTGTGT
GGCTGTATGG	AGAAAGAATG	ACGAGAACAT	AACACTAGAG	ACAGTTTGCC
ATGACCCCCA	GCTCCCCCTAC	CATGACTTTA	TTCTGGAAGA	TGCTGCTTCT
CCAAAGTGCA	TTATGAAGGA	AAAAAAAAG	CCTGGTGAGA	CTTTCITCAT
GTGTTCCCTGT	AGCTCTGATG	AGTGCAATGA	CAACATCATC	TTCTCAGAAG
AATATAACAC	CAGCAATCCT	GACTTGTTGC	TAGTCATATT	TCAAGTGACA
GGCATCAGCC	TCTTGCCACC	ACTGGGAGTT	GCCATATCTG	TCATCATCAT
CTTCTACTGC	TACCGCGTTA	ACCGGCAGCA	GAAGCTGAGT	TCAACCTGGG
AAACCGGCAA	GACGCGGAAG	CTCATGGAGT	TCAGCGAGCA	CTGTGCCATC
ATCCTGGGAG	ATGACCGCTC	TGACATCAGC	TCCACGTGTG	CCAACAACAT
CAACCACAAC	ACAGAGCTGC	TGCCCATTTA	GCTGGACACC	CTGGTGGGGA
AAGGTCGCTT	TGCTGAGGTC	TATAAGGCCA	AGCTGAAGCA	GAACACTTCA
GAGCAGTTTG	AGACAGTGGC	AGTCAAGATC	TTTCCCTATG	ACCACTATGC
CTCTTGGAAG	GACAGGAAGG	ACATCTTCTC	AGACATCAAT	CTGAAGCATG
AGAACATACT	CCAGTTCCTG	ACGGCTGAGG	AGCGGAAGAC	GGAGTTGGGG
AAACAATACT	GGCTGATCAC	CGCCTTCCAC	GCCAAGGGCA	ACCTACAGGA
GTACCTGACG	CGGCATGTCA	TCAGCTGGGA	GGACCTGCGC	AACGTGGGCA
GCTCCCTCGC	COGGGGATTG	TCTCACCTCC	ACAGTGATCA	CACTCCATGT
GGGAGGCCCA	AGATGCCCAT	CGTGACACAG	GACCTCAAGA	GCTCCAATAT
CCTCGTGAAG	AACGACCTAA	CCTGCTGCCT	GTGTGACTTT	GGGCTTTCCC
TGCGTCTTGG	ACCCTACTCT	TCTGTGGATG	ACCTGGCTAA	CAGTGGGCGAG
GTGGGAACCTG	CAAGATACAT	GGCTCCAGAA	GTCCTAGAAT	CCAGGATGAA
TTTGGAGAAT	GCTGAGTCCT	TCAAGCAGAC	CGATGTCTAC	TCCATGGCTC
TGGTGCCTCTG	GGAAATGACA	TCTCGCTGTA	ATGCAGTGGG	AGAAGTAAAA
GATTATGAGC	CTCCATTTGG	TTCCAAGGTG	CGGGACCTCG	TGGTGGAAAG
CATGAAGGAC	AACGTGTTGA	GAGATCGAGG	CACCAGAAAT	TCCAGCTTCT
GGCTCAACCA	CCAGGGCATC	CAGATGGTGT	GTGAGACGTT	GACTGAGTGC
TGGGACCACG	ACCCAGAGGC	CCGTCTCACA	GCCCAGTGTG	TGGCAGAACG
CTTCAGTGAG	CTGGAGCATC	TGGACAGGCT	CTCGGGGAGG	AGCTGCTCGG
AGGAGAAGAT	TCCTGAAGAC	GGCTCCCTAA	ACACTACCAA	ATAGCTCTTA
TGGGGCAGGC	TGGGCATGTC	CAAAGAGGCT	GCCCCCTCTCA	CCAAA*

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FIGURE 3

>P1;3FFPEP

Meld of: 3FF6-9 3FF13

MTSSGVCHGS	GAAQGLWPLH	IVLWTRIAST	IPPHVQKSVN	NDMIVTDNNG
AVKFPQLCKF	CDVRFSTCDN	QKSCMSNCSI	TSICEKPEV	CVAVWRKND
NITLETVCHD	PKLPYHDFIL	EDAASPKCIM	KEKKRPGETF	FMCSCSDEC
NDNIIFSEY	NTSNFDLLLV	IFQVTGISLL	PPLGVAISVI	IIFYCYRVNR
QOKLSSTWET	GKTRKIMEFS	EHCAIILED	RSDISSTCAN	NINHNTELLP
IELDTLVGKG	RFAEVYKAKL	KONTSEQFET	VAVKIFFYDH	YASWKDRKDI
FSDINLKHEN	ILQFLTAER	KTELGKQYWL	ITAFHAKGNL	QEYLTRHVIS
WEDLRNVGSS	LARGLSHLHS	DHTPCGRPKM	PIVHRDLKSS	NILVKNDLTC
CICDFGLSLR	LGPYSSVDDL	ANSGQVG TAR	YMAPEVLES	MNLENAESFK
QTDVYSMALV	LWEMTSRCNA	VEVKDYEP	FGSKVRDPV	ESMKDNVLRD
RGTRNSSEFWL	NHQGIQMVCE	TLTECWDHDP	EARLTAQCVA	ERFSELEHLD
RLSGRSCSEE	KIPEDGSLNT	TK*		

SECRET